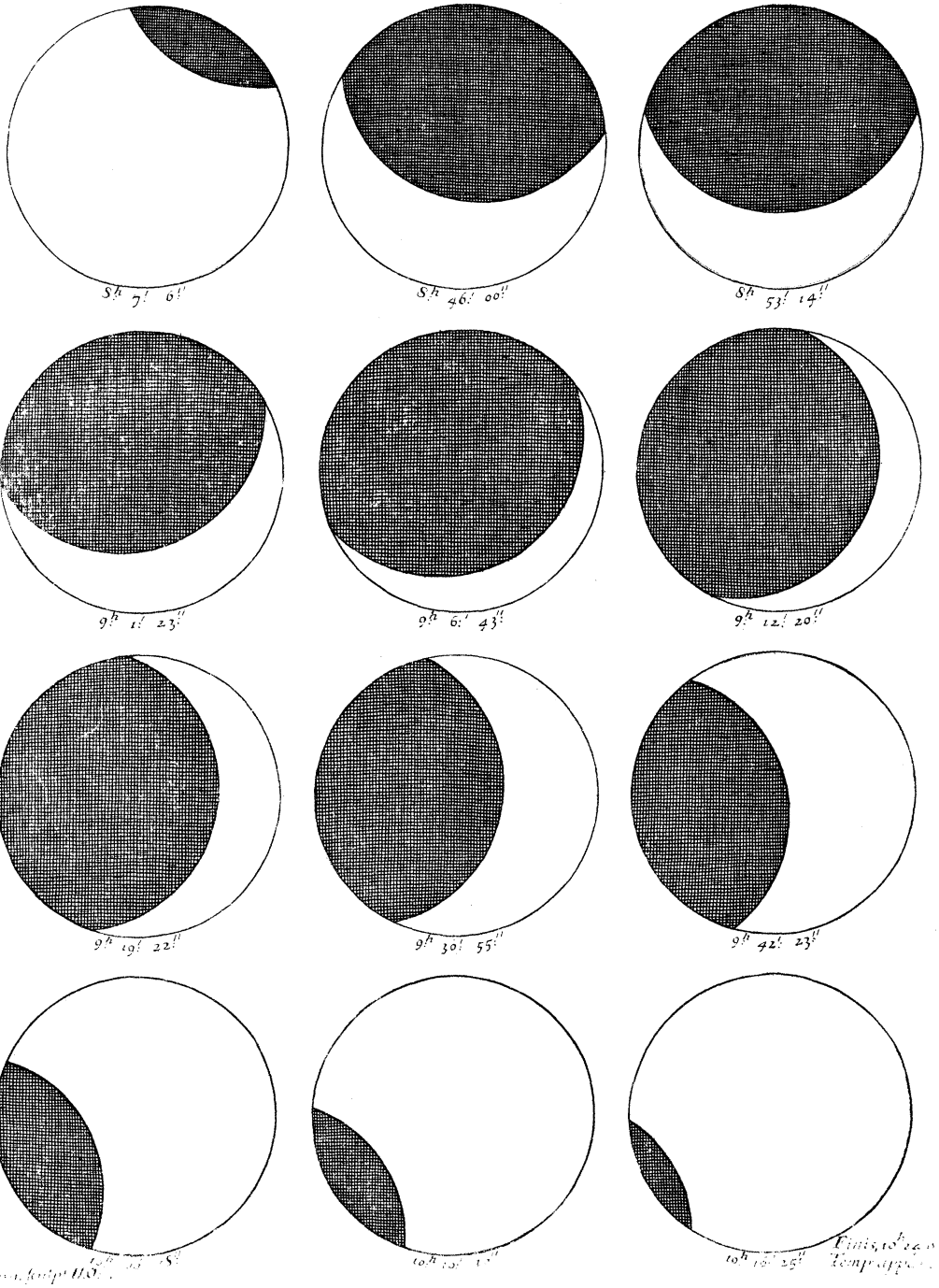
SCHEMA

Phasium SOLIS Deficientis
An. 1699. Septembris 13. Stilo Iuliano A.M. OXONIÆ, Observatarum
a Davide Gregorio M.D. Astronomiæ Professore Saviliano & S.R.S.



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All Day cloudy and dark, the Gale freſhning and veering to *Eaſt-North-Eaſt*, the Mercury riſing to $29\frac{12}{20}$.

♄. 31ſt. Gray cloudy Weather all Day, with a freſh Gale at *North-Eaſt*; in the Evening ſome Rain blowing freſh all Night.

JANUARY.

☉. 1ſt. Variable Weather with ſmall Gales at *North-Eaſt*.

☾. 2d. Rainy thick Weather all Day and Night with little Wind at *North-Eaſt*.

♂. 3d. Continual thick rainy Weather all Day and Night, the Wind at *North-Eaſt*.

☿. 4th. Fair Weather ſomewhat cloſe, and calm all Day and Night.

♃. 5th. Cloſe Weather with ſome Rain and Calm this Forenoon; and in the Afternoon a ſmall Brize at *Weſt-North-Weſt*. Departed from Emüy.

V. *Part of a Letter from Dr.* David Gregory, *to Dr.* Sloane, *dated* Oxford, October 12. 1699. *containing his obſervations of the Eclipſe of the Sun on the* 13*th of* September *laſt.*

I Send you a Scheme of the Phaſes of the late Eclipſe of the Sun, (*ſee the Table*) as I obſerv'd them. I did not ſee the beginning of it: But the end happened here, preciſely Twenty four *Minutes* and Nine ſeconds after Ten a Clock in the *Morning*, apparent Time, and all the Times marked in the Figure are ſuch: The greateſt Obſervation, which was Ten Digits and a Quarter, was about Seven *Minutes* af-

ter

ter Nine. The Scheme ſhews the reſt of the Phaſes.

Of the Origin of white Vitriol and the Figure of its Cryſtals, not yet accounted for, by Dr. Martin Liſter, F. R. S.

AMongſt the *Deſiderata*, relating to *Foſſil Salts*, the Origin that I know of *white Vitriol* is obſcure, and its Cryſtals undeſcribed.

All I can find of this matter is out of *Borrichius de Docimaſtice metallica*, that it is produced from a certain Lead Ore, boiled raw. (*Plumbi nigri vena vitriolum album producit, etiam non cremata*) none, that I know of, of our Engliſh Lead Ores gives us any ſuſpicion of any ſuch Vitriol. It is true, I have by me ſome Sorts of *white Lead Ore Spar-like*, plentifully yielding Lead: But I cannot ſay that either thoſe or any coloured Lead Ores, did give me any reaſon to ſuſpect, after diverſe experiments upon them, that yielded white Vitriol.

As to the Cryſtals of white Vitriol, they are very difficult to deſcribe, and ſeem to me to be a congeries of infinite ſmall Needles, for which reaſon it is of a moſt ſpeedy Operation, and irritates the Stomach ſuddenly, before they can be well diſſolved or broken.

I recommend the inquiry of both theſe particulars concerning white Vitriol, to the Induſtry and Diligence of the Curious.